

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Catalog No.
L08414

Product Name: 2-(4-Chloro-2-methylphenoxy)propionic acid, 98+%

Synonyms: 2-(4-Chloro-o-tolyloxy)propionic acid, MCP, Mecoprop

Manufacturer/Supplier Name: Alfa Aesar - A Johnson Matthey Company

Address: 30 Bond St.
Ward Hill, MA 01835

Business Phone: 978-521-6300

Business Fax: 978-521-6350

For information in North America, call: 978-521-6300

CHEMTREC Numbers:**For emergencies in the US, call CHEMTREC: 800-424-9300****For emergencies outside US, call INTERNATIONAL: (703)527-3887****For Nonemergency, call: (800)262-8200**[To Top of page](#)

SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS

Catalog No. L08414

Chemical Name 2-(4-Chloro-2-methylphenoxy)propionic acid

CAS# 93-65-2

% Weight (Typical) 98+

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SECTION 3 : HAZARDS IDENTIFICATION

Catalog No. L08414

Emergency Overview: Reproductive effects. Mutation data. Irritant.

2-(4-Chloro-2-methylphenoxy)propionic acid:**Potential Health Effects:**

Eye Contact: May cause eye irritation.

Skin Contact: May cause skin irritation.

Skin Absorption: Toxic by skin contact.

Inhalation: May cause respiratory system irritation.

Ingestion: No data

Target Organs: Eyes. Skin. Reproductive System.

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SECTION 4 : FIRST AID MEASURES**Catalog No. L08414**

Eye Contact:	Immediately flush eyes with plenty of water for at least 20 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention if irritation persists, or symptoms of overexposure become apparent.
Skin Contact:	Immediately wash skin with plenty of water for at least 20 minutes, while removing contaminated clothing and shoes. Get medical attention especially, if irritation develops, persists, or symptoms of overexposure become apparent.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Keep warm. Get immediate medical attention.
Ingestion:	If swallowed, call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting unless instructed by medical personnel. Get medical attention.

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SECTION 5 : FIRE FIGHTING MEASURES**Catalog No. L08414**

Flash Point:	No data
Extinguishing Media:	Use dry powder or carbon dioxide when fighting a fire involving this material.
Unsuitable Media:	Water extinguishers are not recommended.
Protective Equipment:	As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved or equivalent) and full protective gear.

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SECTION 6 : ACCIDENTAL RELEASE MEASURES**Catalog No. L08414**

Personal Precautions:	Use proper personal protective equipment as listed in section 8.
Spill Cleanup Measures:	Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Refer to section 13 for disposal requirements.
Environmental Precautions:	Do not allow material to enter drains or streams.

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SECTION 7 : HANDLING and STORAGE**Catalog No. L08414**

Handling:	This product should be handled only by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals, who should take into account the fire, health and chemical hazard data. It should always be handled in an efficient fume hood or equivalent system. The user should consider that the toxicological and physiological properties of many compounds are not yet well determined and that new hazardous products may arise from reactions between chemicals. Care should be taken to prevent any chemical from coming into contact with the skin or eyes and from contaminating personal clothing.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat and incompatible substances. Keep container tightly closed when not in use.
Hygiene Practices:	Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling dust.

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SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION**Catalog No. L08414**

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
Skin Protection Description:	Wear suitable protective clothing to prevent contact with skin.
Hand Protection Description:	Wear appropriate protective gloves. Consult glove manufacturers for glove permeability data.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
Respiratory Protection:	A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited to airborne concentrations that are typically within 10 times the exposure limit. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirators use.
Other Protective:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

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SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES**Catalog No. L08414**

Physical State/Appearance:	Solid
Color:	Cream to pale brown
Vapor Pressure:	0.31 mbar @ 20°C (68°F)
Flash Point:	No data
Boiling Point:	No data
Melting Point:	88-90°C (190.4-194°F)
n-Octanol/water partition coefficient:	3.13
Solubility in Water:	0.62 g/L @ 20°C (68°F)
Density:	No data
Molecular Formula:	C ₁₀ H ₁₁ ClO ₃
Molecular Weight:	214.65

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SECTION 10 : STABILITY and REACTIVITY**Catalog No. L08414**

Conditions to Avoid:	Heat, flames and sparks.
Incompatibilities with Other Materials:	Oxidizing agents.
Possible Decomposition Product:	Hydrogen chloride.

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SECTION 11 : TOXICOLOGICAL INFORMATION**Catalog No. L08414**

2-(4-Chloro-2-methylphenoxy)propionic acid :

RTECS Number:	UE9750000
Eye Effect:	No data reported in the cited references as of the revision date.
Skin Effects:	Skin - rabbit LD50: 900 mg/kg (RTECS)
Ingestion Effects:	Oral - rat LD50: 650 mg/kg (RTECS); Oral - mouse LD50: 369 mg/kg (RTECS)
Inhalation Effects:	No data reported in the cited references as of the revision date.
Chronic Skin Effects:	skin - rabbit TDLo: 15 gm/kg/3W-I Skin and Appendages - dermatitis, other (after systemic exposure) Nutritional and Gross Metabolic - weight loss or decreased weight gain Related to Chronic Data - death (RTECS)
Chronic Ingestion Effects:	Oral - rat TDLo: 14400 mg/kg/90D-I Behavioral - food intake (animal) Blood - pigmented or nucleated red blood cells Nutritional and Gross Metabolic - weight loss or decreased weight gain (RTECS)
Carcinogenicity:	Suspected carcinogen.(Sax)
Mutagenicity:	Mutation data reported. (RTECS).
Teratogenicity:	Teratogenic effects. (RTECS)
Reproductive Toxicity:	Experimental teratogenic and reproductive effects (Sax)
Other Toxicological Information:	Intraperitoneal - rat LD50: 402 mg/kg

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SECTION 12 : ECOLOGICAL INFORMATION**Catalog No. L08414**

Ecotoxicity:	LC50 Salmo gairdneri 124 ppm/96H
Bioaccumulation:	Not expected to bioaccumulate and/or bioconcentrate in aquatic organisms.
Biodegradation:	Expected to be readily biodegradable in soil and water, BOD 50% after 21 days. Vapors are photodegradable in the atmosphere, estimated half-life 22 hours.
Environmental Stability:	Not expected to be persistent in the environment

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SECTION 13 : DISPOSAL CONSIDERATIONS**Catalog No. L08414**

Waste Disposal:	Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines, by a licensed disposal company.
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SECTION 14 : TRANSPORT INFORMATION**Catalog No. L08414**

DOT Hazard Class:	No data.
DOT Identification Number:	No data.

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SECTION 15 : REGULATORY INFORMATIONCatalog No. L08414

2-(4-Chloro-2-methylphenoxy)propionic acid :**TSCA 8(b): Inventory Status:** Listed on the TSCA inventory.**Risk Phrases:**
R22 Harmful if swallowed.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.**Safety Phrase:**
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39 Wear suitable gloves and eye/face protection.[To Top of page](#)

SECTION 16 : ADDITIONAL INFORMATIONCatalog No. L08414

MSDS Preparation Date: January 1, 2002, Version 1**MSDS Revision Date:** April 14, 2003.**MSDS Author:** Actio Corporation.**Disclaimer:**

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References:

1. American Chemical Society, STN Easy Online Database
2. Brethericks Reactive Chemical Hazards Database. Version 2.
3. Gassarett and Doulls Toxicology, The Basic Science of Poisons.
4. Hawleys Condensed Chemical Dictionary, Thirteenth Edition
5. IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, WHO International Research on Cancer.
6. Industrial Hygiene and Toxicology, by F.A. Patty.
7. National Library of Medicine, Department of Health and Human Services, Hazardous Substances Data Bank (HSDB).
8. National Toxicology Program (NTP) Eighth Report on Carcinogens, 1997.
9. NIOSH Registry of Toxic Effects of Chemical Substances (RTECS) and Pocket Guide to Chemical Hazards.
10. OSHA Hazard Communication Standard, 1910.1200 and Z Tables.
11. Sax Dangerous Properties of Industrial Materials. Tenth Edition.
12. The Merck Index: An Encyclopedia of Chemicals and Drugs. Merck and Company. Twelfth Edition 1998.
13. Threshold Limit Values for Chemical Substances and Physical Agents in the Work Environmental and Biological Exposure Indices. TLV Booklet, 2001.

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